

GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: June 25, 2003, 14:40:41 ; Search time 11.9318 Seconds
(without alignments)
837.928 Million cell updates/sec

Title: US-09-622-613B-2

Perfect score: 578
Sequence: 1 QDWLTFQKKHLTNTRDVDCN.....TFCVTCENQAPVHFVGVC 104

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 283224 seqs, 96134422 residues

Total number of hits satisfying chosen parameters: 283224

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database: PIR_73.*

1: pir1.*
2: pir2.*
3: pir3.*
4: pir4.*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	553	95.7	104	2 A39035	ribonuclease-relat
2	289	50.0	111	2 A27121	ribonuclease-relat
3	285.5	49.4	111	1 JX0120	ribonuclease-relat
4	269.5	46.6	111	2 JX0085	pancreatic ribonuc
5	149	25.8	119	2 S41111	pancreatic ribonuc
6	131	22.7	124	1 NRUI	pancreatic ribonuc
7	128	22.1	125	1 A32474	angiogenin (valida
8	126	21.8	128	1 NRCU	pancreatic ribonuc
9	125	21.6	124	1 NRMHK	pancreatic ribonuc
10	120	20.8	128	1 NRKS	pancreatic ribonuc
11	119.5	20.7	145	1 A35932	angiogenin precurs
12	119	20.6	128	1 NRGPB	pancreatic ribonuc
13	117	20.2	124	1 NRCB	pancreatic ribonuc
14	116	20.1	125	1 B43825	angiogenin - rabdi
15	116	20.1	128	1 NRY	pancreatic ribonuc
16	114	19.7	124	1 NRHP	pancreatic ribonuc
17	113	19.6	147	1 NRHUG	angiogenin precurs
18	112	19.4	124	1 NRBOB	pancreatic ribonuc
19	112	19.4	124	1 NRPQ	pancreatic ribonuc
20	112	19.4	124	2 J05560	pancreatic ribonuc
21	112	19.4	150	1 NRBO	pancreatic ribonuc
22	111.5	19.3	147	2 I52489	ribonuclease 4 (EC
23	111	19.2	124	2 S08549	ribonuclease - dom
24	111	19.2	128	1 NRHO	pancreatic ribonuc
25	111	19.2	128	1 NRPQ	pancreatic ribonuc
26	111	19.2	167	2 S20066	pancreatic-type ri
27	110.5	19.1	123	1 A43825	angiogenin - pig
28	110.5	19.1	155	2 UC6159	eosinophil-associa
29	109	18.9	124	1 NRSH	pancreatic ribonuc

30	109	18.9	124	1 NRPRH	pancreatic ribonuc
31	109	18.9	124	1 NRGA	pancreatic ribonuc
32	109	18.9	124	2 S07141	pancreatic ribonuc
33	108	18.7	124	1 NRWB	pancreatic ribonuc
34	108	18.7	124	1 NRGF	pancreatic ribonuc
35	107	18.5	124	1 NRGF	pancreatic ribonuc
36	106	18.3	156	2 J06160	eosinophil-associa
37	105	18.2	124	1 NRDEO	pancreatic ribonuc
38	105	18.2	124	1 NRDM	pancreatic ribonuc
39	105	18.2	124	1 NRDM	pancreatic ribonuc
40	105	18.2	124	1 NRDM	pancreatic ribonuc
41	105	18.2	128	1 NRDM	pancreatic ribonuc
42	104	18.0	124	1 NRHY	pancreatic ribonuc
43	103	17.8	124	1 NRDE	pancreatic ribonuc
44	103	17.8	124	1 NRDE	pancreatic ribonuc
45	103	17.8	124	1 NRKN	pancreatic ribonuc

ALIGNMENTS

RESULT 1

A39035

ribonuclease-related anti-tumor protein - northern leopard frog (fragment)

C:Species: Rana pipiens (northern leopard frog)

C>Date: 31-Jul-1991 #sequence_revision 31-Jul-1991 #text_change 30-Jun-1993

C:Accession: A39035

R:Rardelt, W.; Mikulski, S.M.; Shogen, K.

J. Biol. Chem. 266, 245-251, 1991

A:Title: Amino acid sequence of an anti-tumor protein from Rana pipiens oocytes and e

A:Reference number: A39035; MUID:91093131; PMID:1985896

A:Accession: A39035

A>Status: preliminary

A:Molecule type: protein

A:Residues: 1-104 <ARD>

C:Superfamily: pancreatic ribonuclease

Query Match 95.7%; Score 553; DB 2; Length 104;

Best Local Similarity 95.2%; Pred. No. 1e-48; 2; Mismatches 2; Indels 0; Gaps 0;

Matches 99; Conservative 3; Mismatches 2; Indels 0; Gaps 0;

OY 1 QDWLTFQKKHLTNTRDVDCNINMSTNLFHCKDKNTFIYSRPEPKAICGIIASKNVLT 60
DB 1 EDWLTFQKKHLTNTRDVDCNINMSTNLFHCKDKNTFIYSRPEPKAICGIIASKNVLT 60

OY 61 SEFTLSDCNVTSRPFCKYKRLKSTNFCVTCENQAPVHFVGVC 104
DB 61 SEFTLSDCNVTSRPFCKYKRLKSTNFCVTCENQAPVHFVGVC 104

RESULT 2

A27121

ribonuclease-related sialic acid-binding lectin - bullfrog

C:Species: Rana catesbeiana (bullfrog)

C>Date: 19-Nov-1988 #sequence_revision 19-Nov-1988 #text_change 30-Jun-1993

C:Accession: A27121

R:Titani, K.; Takio, K.; Kuwada, M.; Mitte, K.; Sakakibara, F.; Kawachi, H.; Takayan

Biochemistry 26, 2189-2194, 1987

A:Title: Amino acid sequence of sialic acid-binding lectin from frog (Rana catesbeiana

A:Reference number: A27121; MUID:87299649; PMID:3304421

A:Accession: A27121

A:Molecule type: protein

A:Residues: 1-111 <TRI>

C:Superfamily: pancreatic ribonuclease

C:Keywords: lectin

Query Match 50.0%; Score 289; DB 2; Length 111;

Best Local Similarity 48.6%; Pred. No. 4.1e-22;

Matches 54; Conservative 17; Mismatches 33; Indels 8; Gaps 3;

OY 1 QDWLTFQKKHLTNTRDVDCNINMSTNLF---HCKDKNTFIYSRPEPKAICGIIASKN 56
DB 1 ENWATFQKKHLTNTRDVDCNINMSTNLFYVGCKRVNTFISSATVKAICTGVI-NMN 59

QY 57 VLTSEFYLSDC---NVTSPCKYKLLKSTNFCVTCENQAPVHFGVGHG 104
 Db 60 VLSSTRFQNLNCTRTSITPRCPYSSRRETYICVCKENQVPHFAGIGRC 110

RESULT 3

JX0120
 Ribonuclease-related stalic acid-binding lectin - Japanese frog
 C:Species: Rana japonica (Japanese frog)
 C:Date: 10-Sep-1999 #sequence_revision 10-Sep-1999 #text_change 10-Sep-1999
 C:Accession: JX0120
 R:Kamiya, Y.; Oyama, F.; Oyama, R.; Sakakibara, F.; Nitta, K.; Kawachi, H.; Takeyanagi, J. Biochem. 108, 139-143, 1990
 A:Title: Amino acid sequence of a lectin from Japanese frog (Rana japonica) eggs.
 A:Reference number: JX0120; MUID:91035319; PMID:2229005
 A:Accession: JX0120
 A:Molecule type: protein
 A:Residues: 1-111 <KAM>
 A:Experimental source: egg
 C:Superfamily: pancreatic ribonuclease
 C:Keywords: lectin; pyroglytamic acid
 F:1/Modified site: pyroglutamate carboxylic acid (Gln) #status experimental
 F:19-72,34-82,52-97,94-111/Disulfide bonds: #status experimental

Query Match 49.4%; Score 285.5; DB 1; Length 111;
 Best Local Similarity 45.0%; Pred. No. 9.3e-22;
 Matches 50; Conservative 19; Mismatches 35; Indels 7; Gaps 2;

QY 1 QDWLTQKKHLNTRDVDCNNIMSTNLF---HCKKNFTYSRPPYKAICKGIIASKN 56
 Db 1 QNNAKQEKHNPNTSINCNITMDKSIYVGGCKERNFTIISATYVAICSGASTNRN 60
 QY 57 VLTSEFYLSDC---NVTSPCKYKLLKSTNFCVTCENQAPVHFGVGHG 104
 Db 61 VLSSTRFQNLNCTRTSITPRCPYSSRRETYICVCKENQVPHFAGIGRC 111

RESULT 4

JX0085
 Pancreatic ribonuclease (EC 3.1.27.5) - bullfrog
 C:Species: Rana catesbeiana (bullfrog)
 C:Date: 07-Sep-1990 #sequence_revision 07-Sep-1990 #text_change 05-Aug-1994
 C:Accession: JX0085
 R:Nitta, R.; Katayama, N.; Okabe, Y.; Iwama, M.; Watanabe, H.; Abe, Y.; Okazaki, T.; Ohguchi, R. Biochem. 106, 729-735, 1989
 A:Title: Primary structure of a ribonuclease from bullfrog (Rana catesbeiana) liver.
 A:Reference number: JX0085; MUID:90130374; PMID:2613682
 A:Accession: JX0085
 A:Molecule type: protein
 A:Residues: 1-111 <NIT>
 C:Superfamily: pancreatic ribonuclease
 C:Keywords: hydrolase; pyroglytamic acid
 F:1/Modified site: pyroglutamate carboxylic acid (Gln) #status experimental
 F:10,35,104/Active site: His, Lys, His #status predicted
 F:19-72,34-82,52-97,94-111/Disulfide bonds: #status predicted

Query Match 46.6%; Score 269.5; DB 2; Length 111;
 Best Local Similarity 43.2%; Pred. No. 3.8e-20;
 Matches 48; Conservative 19; Mismatches 37; Indels 7; Gaps 2;

QY 1 QDWLTQKKHLNTRDVDCNNIMSTNLF---HCKKNFTYSRPPYKAICKGIIASKN 56
 Db 1 QNNAKQEKHNPNTSINCNITMDKSIYVGGCKERNFTIISATYVAICSGASTNRN 60
 QY 57 VLTSEFYLSDC---NVTSPCKYKLLKSTNFCVTCENQAPVHFGVGHG 104
 Db 61 VLSSTRFQNLNCTRTSITPRCPYSSRRETYICVCKENQVPHFAGIGRC 111

RESULT 5
 S4111
 Pancreatic ribonuclease - common iguana

C:Species: Iguana iguana (common iguana)
 C:Date: 19-Mar-1997 #sequence_revision 19-Mar-1997 #text_change 21-Aug-1998
 C:Accession: S4111
 R:Zhao, W.; Beintema, J.J.; Hofsteenge, J. Eur. J. Biochem. 219, 641-646, 1994
 A:Title: The amino acid sequence of iguana (Iguana iguana) pancreatic ribonuclease.
 A:Reference number: S4111; MUID:94139745; PMID:8307028
 A:Accession: S4111
 A:Status: preliminary
 A:Molecule type: protein
 A:Residues: 1-119 <ZHA>
 C:Superfamily: pancreatic ribonuclease

Query Match 25.8%; Score 149; DB 2; Length 119;
 Best Local Similarity 30.7%; Pred. No. 5.5e-08;
 Matches 35; Conservative 19; Mismatches 44; Indels 16; Gaps 5;

QY 1 QDWLTQKKHLNTRDVDCNNIM---STNLFHCKDKNTFYSPREPYKAIC-K 49
 Db 1 QDWSSFOKKHIDYDETSASNPAYCDLMQORNLNPTKCKTRMTFVHASPSEIQVCGSG 60
 QY 50 GIYASKNVLTTSB-FYLSDC---NVTSPCKYKLLKSTNFCVTCENQAPVHFGVGHG 98
 Db 61 GTHYEDNLVDSNPSFLTDCCKNVGTAAPSCKYNGTPGTRIRIACENQPVHFGVGHG 114

RESULT 6

NROI
 Pancreatic ribonuclease (EC 3.1.27.5) - cuis
 N:Alternate names: RNase 1; RNase A
 C:Species: Galea musteloides (cuis)
 C:Date: 03-Aug-1984 #sequence_revision 03-Aug-1984 #text_change 04-Oct-1996
 C:Accession: A00827
 R:Beintema, J.J.; Neuteboom, B. J. Mol. Evol. 19, 145-152, 1983
 A:Title: Origin of the duplicated ribonuclease gene in guinea-pig: comparison of the A:Reference number: A92957; MUID:87036770; PMID:6571219
 A:Accession: A00827
 A:Molecule type: protein
 A:Residues: 1-124 <BEI>
 A:Note: about one-third of the molecules lacked Ala-1
 C:Comment: The cuis is a rodent belonging to the same subfamily as the guinea pig.
 C:Superfamily: pancreatic ribonuclease
 C:Keywords: glycoprotein; hydrolase; nucleic acid digestion; pancreas
 F:12,41,119/Active site: His, Lys, His #status predicted
 F:26-84,40-95,98-110,65-72/Disulfide bonds: #status predicted
 F:94/Binding site: carbohydrate (Asn) (covalent) #status absent

Query Match 22.7%; Score 131; DB 1; Length 124;
 Best Local Similarity 30.6%; Pred. No. 3.7e-06;
 Matches 37; Conservative 18; Mismatches 34; Indels 32; Gaps 7;

QY 4 LTFQKKHLNTRDVDCNNIM---STNLFHCKDKNTFYSPREPYKAICKGIIA 53
 Db 6 MKFORQHMDSGHRDTNIN--YCNEMMYRRMTGRCRQVTEVHEPLEAVQAVC---S 59
 QY 54 SKNV-----LTTSEFYLSDCNVTSP---CKYKLLKSTNFCVTCENQAPVHFGVGHG 97
 Db 60 QKNVPCNKNGQTCYQSHSSMRITDCRVTSSEKYPNCYSYRMQAQKIIIVACEGTPSPVHFGVGHG 119

QY 98 F 98
 Db 120 F 120

RESULT 7
 A32474
 angiogenin [validated] - bovine
 N:Alternate names: angiogenesis factor
 N:Contans: ribonuclease (EC 3.1.27.-)
 C:Species: Bos primigenius taurus (cattle)
 C:Date: 25-Sep-1989 #sequence_revision 25-Sep-1989 #text_change 15-Sep-2000
 C:Accession: A32474; S02001; A30044; S48212

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A:Residues: 1-128 <VAN>
C:Superfamily: pancreatic ribonuclease
C:Keywords: glycoprotein, hydrolase, nucleic acid digestion, pancreas
E:12,41,119/Active site: His, Lys, His #status predicted
F:26-84,40-95,58-110,65-72/Disulfide bonds: #status predicted
F:34/Binding site: carbohydrate (Asn) (covalent) #status experimental

Query Match 21.8%; Score 126; DB 1; Length 128;
Best Local Similarity 29.9%; Pred. No. 1.2e-05;
Matches 35; Conservative 18; Mismatches 36; Indels 28; Gaps 7;

Oy 6 FQKKHL-----TNTRDVDCNNIM-STDLF--HCKDKMTFYSRPEPKATCKGIASKNV 57
      :::::  :  :  :  :  :  :  :  :  :  :  :  :  :  :  :  :  :  :  :  :  :  :  :
Db 8 FERQHMDSRGSPRTNPVNCNEMKSRMTQGRCKPVTVPHEPLADVDGVC---PQKNV 63
      :::::  :  :  :  :  :  :  :  :  :  :  :  :  :  :  :  :  :  :  :  :  :  :

Oy 58 L-----TTSEFIYLSDCNVTSRP-----CKTKLKSNTNFCVTQENQ--APVHF 98
      :  :  :  :  :  :  :  :  :  :  :  :  :  :  :  :  :  :  :  :  :  :  :
Db 64 LCKNGQTCNYGSNSNMHITDCRVTNSNDYPNCSTRTSQEERKSIYVACEGPNVPVPHF 120
      :  :  :  :  :  :  :  :  :  :  :  :  :  :  :  :  :  :  :  :  :  :  :

RESULT 9
NRWK
pancreatic ribonuclease (EC 3.1.27.5) - minke whale
N:Alternate names: RNase A
C:Species: Balanoptera acutorostrata (minke whale, lesser rorqual)
C:Date: 24-Apr-1984 #sequence,revision 24-Apr-1984 #text,change 03-Jun-1994
C:Accession: A00818
R:Emmens, M.; Welling, G.W.; Beintema, J.J.
Biochem. J. 157, 317-323, 1976
A:Title: The amino acid sequence of pike whale (lessor rorqual) pancreatic ribonuclease
A:Reference number: A00818; MUID:76277855; PMID:962870
A:Accession: A00818
A:Molecule type: protein
A:Residues: 1-124 <EMM>
C:Superfamily: pancreatic ribonuclease
C:Keywords: glycoprotein, hydrolase, nucleic acid digestion, pancreas
E:12,41,119/Active site: His, Lys, His #status predicted
F:26-84,40-95,58-110,65-72/Disulfide bonds: #status predicted
F:76/Binding site: carbohydrate (Asn) (covalent) (partial) #status experimental

Query Match 21.6%; Score 125; DB 1; Length 124;
Best Local Similarity 28.6%; Pred. No. 1.5e-05;
Matches 34; Conservative 15; Mismatches 42; Indels 28; Gaps 6;

Oy 4 LTFQKKHLTNTRDVD-----CNNIMSTNLF--HCKDKMTFYSRPEPKATCKGIASKV 55
      :::::  :  :  :  :  :  :  :  :  :  :  :  :  :  :  :  :  :  :  :  :  :  :
Db 6 MKFQRHMDSGNSPGNNPNPCNQMMMRKMTQGRCKPVNFEHSLSDYKAVC---SQK 61
      :::::  :  :  :  :  :  :  :  :  :  :  :  :  :  :  :  :  :  :  :  :  :  :

Oy 56 NVL-----TTSEFIYLSDCNVTSRP-----CKTKLKSNTNFCVTQENQ--APVHF 98
      :  :  :  :  :  :  :  :  :  :  :  :  :  :  :  :  :  :  :  :  :  :  :
Db 62 NVLCKNGRTNCYESNSTMHTDCRQGTSSSKYPNCAVYTSQEKHIIYVACEGPNVPVPHF 120
      :  :  :  :  :  :  :  :  :  :  :  :  :  :  :  :  :  :  :  :  :  :  :

RESULT 10
NRKS
pancreatic ribonuclease (EC 3.1.27.5) - Casiragua
C:Species: Proechimys guireae (Casiragua)
C:Date: 17-Mar-1987 #sequence,revision 17-Mar-1987 #text,change 30-Sep-1993
C:Accession: A00821
R:Beintema, J.J.; Knol, G.; Martena, B.
Biochim. Biophys. Acta 705, 102-110, 1982
A:Title: The primary structures of pancreatic ribonucleases from African porcupine and
A:Reference number: A90644; MUID:83000399; PMID:7115727
A:Accession: A00821
A:Molecule type: protein
A:Residues: 1-128 <BEI>
A:Note: residues 67-78 were positioned primarily by homology with other ribonucleases
C:Superfamily: pancreatic ribonuclease
C:Keywords: glycoprotein, hydrolase, nucleic acid digestion, pancreas
E:12,41,119/Active site: His, Lys, His #status predicted
F:26-84,40-95,58-110,65-72/Disulfide bonds: #status predicted
F:34/Binding site: carbohydrate (Asn) (covalent) #status experimental

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Query Match Similarity      20.8%; Score 120; DB 1; Length 128;
Best Local Similarity      29.9%; Pred. No. 4.9e-05;
Matches      35; Conservative 18; Mismatches 36; Indels 28; Gaps 7;

OY 6 FQKRL-----TNRDYDCNNIM-STNLF--HCKDKNTFIYSRPEPKAICGIIASKNV 57
    |||:| : | : | : | : | : | : | : | : | : | : | : | : | : | : |
Db 8 FQRHISSSGSPRTNPNCNMAMKSRRMTGERCKRPVTFEHPRIADVOANC---FQKNV 63
    |||:| : | : | : | : | : | : | : | : | : | : | : | : | : |

OY 58 -----LTTSEFYLSDCNVTSR----PCKYKLKSTNFTFCYCENQ--APVHF 98
    : : | : | : | : | : | : | : | : | : | : | : | : | : | : |
Db 64 PCKNGOSNCYESTSNMHTDCLRTLSNSKFPDCLYRTSOEEXSLIVACEGNYPVVFH 120
    : : | : | : | : | : | : | : | : | : | : | : | : | : | : |

RESULT 11
A35932
angiotenin precursor - mouse
N:Alternate names: angiotensin factor
N:Contains: ribonuclease (EC 3.1.27.-)
C:Species: Mus musculus (house mouse)
C:Date: 09-Nov-1990 #sequence_revision 09-Nov-1990 #text_change 18-Jun-1999
C:Accession: A35932
R:Bond, M.D.; Vallee, B.L.
Biochem. Biophys. Res. Commun. 171, 988-995, 1990
A>Title: Isolation and sequencing of mouse angiotenin DNA.
A:Reference number: A35932; MUID:91025023; PMID:2224258
A:Accession: A35932
A>Status: not compared with conceptual translation
A:Molecule type: DNA
A:Residues: 1-145 <BON>
A:Cross-references: GB:U22516; NID:g726325; PIDN:AAA91366.1; PID:g726326
C:Genetics:
A:Insertions: #status absent
C:Function:
A:Description: hydrolyzes tRNA; induces vascularization of normal and malignant tissues
C:Superfamily: pancreatic ribonuclease
C:Keywords: angiogenesis; hydrolase; nucleic acid degradation; pyrogutamic acid
F:1-24/DNA: signal sequence #status predicted <SIG>
F:25-145/Product: angiotenin #status predicted <MAT>
F:25/Modified site: pyrrolidone carboxylic acid (Gln) (In mature form) #status predicted
F:37/64,137/Active site: His, Lys, His #status predicted
F:50-104,63-115,81-130/Disulfide bonds: #status predicted

Query Match      20.7%; Score 119.5; DB 1; Length 145;
Best Local Similarity 30.8%; Pred. No. 6.3e-05;
Matches      33; Conservative 12; Mismatches 45; Indels 17; Gaps 5;

OY 9 KHLNTRDVD-----CNNIMSTNLF--HCKDKNTFIYSRPEPKAIC--KGIIASN 56
    ||| : | : | : | : | : | : | : | : | : | : | : | : | : | : |
Db 32 KFLQHNDHAKRKGGDRRCERMMKRSLTSCSKOVNFPHGNCKNIKAIACANSPYREN 91
    |||:| : | : | : | : | : | : | : | : | : | : | : | : | : |

OY 57 V-LTTSEFYLSDCNVT--RPPCKYKLKSTNFTFCYCENQADPVHF 98
    : : | : | : | : | : | : | : | : | : | : | : | : | : | : |
Db 92 LRMSKSPFOVYTCKRKTGSGPRPCQYRASAGFRHVAVIACENGILPVHF 138
    : : | : | : | : | : | : | : | : | : | : | : | : | : | : |

RESULT 12
NRGPB
pancreatic ribonuclease (EC 3.1.27.5) B - guinea pig (tentative sequence)
N:Alternate names: RNase IB
C:Species: Cavia porcellus (guinea pig)
C:Date: 24-Apr-1984 #sequence_revision 24-Apr-1984 #text_change 31-Mar-2000
C:Accession: A00826
R:van den Berg, A.; van den Hende-Timmer, L.; Hofsteenge, J.; Gastra, W.; Beintema, J.J.;
Eur. J. Biochem. 75, 91-100, 1977
A>Title: Guinea pig pancreatic ribonucleases. Isolation, properties, primary structure
A:Reference number: A91247; MUID:77185023; PMID:862624
A:Accession: A00826
A:Molecule type: protein
A:Residues: 1-128 <VAN>
A>Note: 64-Pro was also found
C:Superfamily: pancreatic ribonuclease
C:Keywords: glycoprotein; hydrolase; nucleic acid digestion; pancreas
F:12/41,119/Active site: His, Lys, His #status predicted

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F:21_34/Binding site: carboxylate (asn) (covalent) #status experimental
F:26-84;40-95;58-110;65-72/Dissulfide bonds: #status predicted

Query Match          20.6%   Score 119; DB 1; Length 128;
Best Local Similarity 28.3%; Pred. No. 6,2e-05;
Matches      34; Conservative 21; Mismatches 35; Indels 30; Gaps 7;

Oy      4 LTFCKHL-----TNRDVCNNIM--STNLFHCKDKNTFYISRPPEPKAICKGIAS 54
       1 : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db      6 MKFGROHMDEGSPSSNSNV-CNVMMTRNNTOGRCPVPTFVNEISLADVOAVC---FQ 60
       1 : : : : : : : : : : : : : : : : : : : : : : : : : : : :

Oy      55 KNLV-----TTSEFYLDCCNVTSRP----CYKRLKSTVFCTGCENQ--APVHF 98
       1 : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db      61 KNVLCKNGQTNCTGYSTRMRITTDICRVITSSSKFPNCSTRMSQAOKSIIVACEGDPIYPVHF 120
       1 : : : : : : : : : : : : : : : : : : : : : : : : : : : :

RESULT 13
NRCB
pancreatic ribonuclease (EC 3.1.27.5) - Chinchilla brevicaudata (tentative sequence)
N:Alternate names: RNase I; RNase A
C:Species: Chinchilla brevicaudata, Chinchilla lanigera brevicaudata
C>Date: 24-Apr-1984 #sequence_revision 30-Sep-1988 #text_change 31-Mar-2000
C:Accession: A00820
R:van den Berg, A.; van den Hende-Timmer, L.; Beintema, J.J.
Biochim. Biophys. Acta 453, 400-409, 1976
A>Title: Isolation, properties and primary structure of coypu and chinchilla pancreat
A:Reference number: A90612; MUID:77065676; PMID:999896
A:Accession type: protein
A:Molecule type: A:Residues: 1-124 <VAN>
A>Note: a second component of chinchilla ribonuclease has 32-Asp
C:Superfamily: pancreatic ribonuclease
C:Keywords: glycoprotein; hydrolase; nucleic acid digestion; pancreas
F:12,41,119/Active site: His, Lys, His #status predicted
F:26-84;40-95;58-110;65-72/Dissulfide bonds: #status predicted
F:34/Binding site: carbohydrate (asn) (covalent) #status experimental

Query Match          20.2%   Score 117; DB 1; Length 124;
Best Local Similarity 26.9%; Pred. No. 9,5e-05;
Matches      32; Conservative 19; Mismatches 40; Indels 28; Gaps 6;

Oy      4 LTFCKHL-----TNRDVCNNIM--STNLFHCKDKNTFYISRPPEPKAICKGIAS 55
       1 : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db      6 MKFGROHMDSGSSTANANCYENEMMKRRMTOGICGVNFVEHPLADVAVC---FOK 61
       1 : : : : : : : : : : : : : : : : : : : : : : : : : : : :

Oy      56 NV-----LTSEFYLDCCNVTSRP----CYKRLKSTVFCTGCENQ--APVHF 98
       1 : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db      62 NVECKNOGNSNYGNSNMHITDCRLTJNSKYPCNSTYTSENKGIIYACCGNPVPVPHF 120
       1 : : : : : : : : : : : : : : : : : : : : : : : : : : : :

RESULT 14
B43825
angiotensin - rabbit
C:Species: Oryctolagus cuniculus (domestic rabbit)
C>Date: 10-Sep-1999 #sequence_revision 10-Sep-1999 #text_change 10-Sep-1999
C:Accession: S29833; B43825
R:Bond, M.D.; Strydum, D.J.; Vallee, B.L.
Biochim. Biophys. Acta 1162, 177-186, 1993
A>Title: Characterization and sequencing of rabbit, pig and mouse angiotensins: discar
A:Reference number: S29833; MUID:93192291; PMID:8448162
A:Accession: S29833
A>Status: preliminary
A:Molecule type: protein
A:Residues: 1-125 <BNQ>
A>Note: submitted to the Protein Sequence Database, December 1992
C:Superfamily: pancreatic ribonuclease
C:Keywords: pyroglutamic acid
F:1/Modified site: pyrrolidone carboxylic acid (Gln) #status experimental

Query Match          20.1%   Score 116; DB 1; Length 125;
Best Local Similarity 31.2%; Pred. No. 0.00012;
Matches      24; Conservative 13; Mismatches 32; Indels 8; Gaps 3;

```


